

# Semih Chelik

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## Education

**Bachelor of Computer Science**, University of Waterloo

Sep 2020 – Apr 2025 | Waterloo, ON

Relevant courses: Data Structures and Algorithms, Object-Oriented Development, Operating Systems, Application Dev, Compilers

## Professional Experience

**Wayfair**, Software Engineer Intern

Jun 2022 – Aug 2022 | Boston, MA

- **Designed and developed 4+ REST APIs** using C# and .NET, collaborating with cross-functional teams to ensure business logic alignment.
- Enhanced monitoring capabilities by **adding Datadog charts to 2 microservices**, resulting in improved tracking of user requests and service health during Wayfair Sale Day (Wayday) and logging of failed user requests for faster issue resolution and improved customer experience.
- Improved code quality by **fixing over 1000+ linting errors** in legacy microservices with .NET code analyzers and implementing new linting rules, resulting in increased code readability and maintainability.
- Enhanced build process efficiency by **integrating Buildkite into 4 microservices**, providing real-time visualization of unit and integration test results for faster debugging and deployment.

**PointClickCare**, Software Engineer Intern

Jan 2022 – Apr 2022 | Mississauga, ON

- **Created 12+ backend APIs** using the Java Spring Boot framework for multiple microservices and developed intuitive React UI components with Material-UI for improved dashboard functionality.
- Utilized TypeScript and React hooks to design and implement dashboard components and an ingestion scheduler.
- Wrote and executed end-to-end tests using JUnit and Jest, resulting in **increased test coverage from 74% to 96%**.
- **Refactored over 8 legacy APIs** and wrote SQL scripts to accommodate nextgen ingester, allowing other teams to schedule table ingestion on the dashboard without manual intervention.

**University of Waterloo**, Software Engineer Intern

May 2021 – Aug 2021 | Waterloo, ON

- Collaborated with a team of 4 interns and RBC to leverage Azure AI for fraud prevention and financial education.
- Rapidly **developed a working MVP in 2 weeks** utilizing React, Material-UI, and Google OAuth for the frontend, and Express.js for the backend.
- Designed and deployed high-volume controller and service layer APIs utilizing Azure Cognitive Services and the Finnhub API, **capable of handling up to 60 requests per second**.
- Acquired **Azure Fundamentals (Az-900)** and **Azure AI Fundamentals (AI-900)** certificates.

## Projects

**JRE Clips Bot**, Python, MoviePy, YouTube API, Bing Search API, Pillow, Docker [🔗](#)

- Developed a Python bot that automates the creation of JRE-style clips from any YouTube video with a timestamp, using MoviePy and YouTube API to streamline the process and **save 2+ hours of manual work**.
- Leveraged the Bing Search API and Pillow library to create custom JRE-style thumbnails for each clip.

**Varila**, React, Redux, Node.js, Express, Material-UI, Mongoose, Quill, Socket.io, JWT, MongoDB, AWS [🔗](#)

- Built a full-stack (MERN) web app that enables real-time collaboration on documents, utilizing Socket.io to broadcast file edits to all users **within 2 seconds**.
- Improved user experience by integrating the Quill library for rich text-editor functionality and **over 10+ features**.

## Skills

### Programming Languages:

Java, JavaScript, C/C++/C#, TypeScript, Python, Kotlin, SQL, HTML/CSS

### Frameworks/Tools

React, Node.js, Redux, Express.js, Spring Boot, .NET, Jenkins, JUnit, MongoDB, Firebase, PostgreSQL, Azure, AWS, Git/Github